





EXCLUSIVE 6-BIT ENSATION

A fact-packed section for YOUR machine-once 44

Full launch details - page 2 SHOPPING



GAMES THAT TAKE OVER YOUR LIFE

Is this the best game this year?



Charts 5 . Letters 13 . Entertainment 25 . Beginners 35 . Tios 36 . Vouchers 41 . Columns 44 . Job Ads 52 . PS

CDI standard: the giants agree

A definitive standard for the much tout

ties software writers interested in It is boosd that CDC will be available to the general public before 1992. When machines appear they will 'abviously

CDI will plug straight into a television and can be operated by mouse. keyboard or remote control. Its main uses will be as apparently sophisticated databases combining test, speech, sudio and graphics. Possibilities exist for the mechines to run games,

although something like word processing is apparently not feasible. already have the rights to printed CD technology (i.e most large electronics machines for no fee. Others though will

have to pay Philips/Sony That due won't be launching a machine occoor until a soltware base has developed. Audio CD players of the ware and vice versa.

Philips appears to be confident that given that CD itself was spared the growing up pains of, say, video.

This is a completely different readact from anything else," commented a Philips spokeswoman. "It combines the personal computer video and audio player



£200 machine ups stakes in 16-bit war

Sega's stunning 16-bit conside will



· Merarleive: £200 next September

in Japan," In effect, Segn is concen-

It's the open heart surgery simulator

Just when you thought that every bookers idea for a comalong comes, of all things, a Californian publisher Software Toolworks has come up saveth the blurb. Toolworks'

warms that it impolyes cutting good tests. "Hey, we've not through "living" flesh and asking people to go around cutting bodies up," she "You make Godbler ded-Oaks in California. your patient lives or dies," Electronic Arts will probably be outdisting Life and with the pame which enables Liss Dickenson decied that Death in the UK some time in you to play suspeon. The firm the game isn't entirely in



Atari takes Stacev laptop in hand

Job cuts hit Mediagenic



Price: 1505

Drive: 3.5 inch floppy - exactly the Memory: 1Mbyte of RAM. Weight: 'About the same as the Power: Battery power, possibly car

Computer firms: vourselves Even by the standards of the hype-obsessed enough to get our hands on one and our

console

OUR OPINION

exclusive report begins on page 8. Judge for yourself the quality of the graphics. Better One view says that the Sega Megadrive will

er counterparts - to say redding of their and 64. If people only want to play games, more than just blast aliens to oblivion. Cer who still nurture beliefs that computers are For sure the new Sega will do ecceptionally Amstrad: made in UK

ed in addition to - rather than as a molacedeath of keyboard games computing have, as

Simply dishonest

detail upon the new that has broken out Other publications - and we're not talking other pattections - and about CU - appear willing to dress up any pretrumpet having an exclusive. Such practices ware bouse and in time - fast willor - no

LAUNCH FOTOR Chris Anderson - CONTRIGUING EDITOR Arter Worker - NEWS EDITOR Colle-Lawton - APT EDYOR-Julie O'Shea - ADVENTISE MENT HANAGER WAY Salmon AN EXECUTIVES Jennie Evans, Sophie Lankeney - AD TYPESET TING Terry Turner - PUBLISHER Greg Ingham

C Pulsare Publishing Ltd - 4 Queen St. Bath.

PC SHOW 88: Who went and why ¬

south bits and bobs to emerce from the PC Show which occurred all that It would appear that there were 99,000 visitors of whom 36 per cent were interested only in what goodies

Occiuses will realise that the other 30 per cent were there to saak up the lot didn't have a computer and were seri

The suit clad mob included some 45,000 businessmen looking to buy a machine over the next twelve months. Next year's event runs from Septem. ber 27th to October 1st. (That's quite

Shoot from the Lip.

CRL's boss Clement "Greenlingers"

Programmer Steve Balt putting his

Training blues According to training firm Computauch

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KIDS ADDICTED TO NAZI HORROR GAMES

which include anti-semitic refer. And The Arrest Test requires taking increasing visione on West German

Multi-nationals panic

at computer fraud surge Hage financial institutions are invest- every plan which is failed, there lark many more which remain undetected

Art for Arc's sake

ed Louis Oley of security firm Micronys. But there has been

Anco boobs again







Foobaler Of The Year Advanced Piritial Simulator

Atari's mega bucks trauma TAKES MAG TO COURT

Atari continues to be dopped by the bad performance of its chain of

three months up to the beginning of In contrast, arch rival Commodore is

prices and shortages for "negatively

out between games publisher Martech and the magazine

Dixons doing the business

Kids' mega GCSE trauma

blest-on-up as a Christmax present the machine their offspring are spend

games," observed boss David The program was written by a teach-

dents a better chance of passing their

Amstrad climbing





Refreshing ribbons

Money for old sticks Joysticks aren't the most resilient of



TIMES HAVE CHANGED...

But the problems haven't

There was a time when all you needed to create the right impression was a good typewriter. Times have changed since Jim got his Home Portable, but the problems are still the same. From multi-national

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SCORO

First pictures and exclusive review of Sega's sensational



New Computer Express has laid its hands on the Soga Megadrive, Japan's first new-wave console. Games freak TONY TAKOUSHI was there at the airport to collect the courier's carry-all, and brought it down to our offices for the first hands-on test in Europe. ANDY STORER helped him unpack.

of the world's first 14-51 consists and on the natified of sign Albri the speak of project development. Begin Unspreciation has been the libes of Nizonade and NIZO to protect the curricipe creates have been added to the curricipe creates a porticular CD protect the higher than a porticular CD protect. The programme is preciated to prove the curricipe creates to your TV with its side of and pully state of the set world action guarantees to your TV with a side of the curricipe control of the c

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take existing 8 bit format Sega cap-

take the smooth, two-band joyaid certific devices—one of which comes burnded.

The lightweight joyaid features an eight-way, button poles movement controller on one side with a start/purse button (numedately above

R helped him unpack. occader on the state occade occader on the state occade occader on the state occade oc

Take a look at this software!





NA COMPLIER DIFFESS + 3 DECEMBER 1988

HER!

16-bit console

a bank of three fire buttons on the apositive vices that Control is extractely septom—seeph, but two and the hand set designed to fit but companies and the hand set designed to fit but companies. All you'd really need to go fully the tuchanter operation of the control of the hand to control to an indic static, appear to occased it to a needs static, applicately to occased one operating and statistically departure in the course concerning over the guest attention of the course concerning the course of the course of

the world counted steps.

Space Harrier 2 looked more than
stanning – we were left wondering
how such massive hall-length coreer
sprices could be shifted at vitus highspeeds without any discountine loss
in the welcomes of other animated
objects. Even through RF leads, azi-

objects. Even through RF leads, animittins was flicker free.

These impressive viscals acide, the feature which knocked us out the most was the perspective change when the fiving character nees into the sky. The ground fails savely breastly was and the bettern dross.

The works

Driven by a 640000 central processor imming at 8 MHz feel in with a 4 MHz 230 and a hage casterneed video cho, the Signal Megadinhe prores out a salette of 512 celour, 903 ceating granics. With 6464 of 146e p MM, 50 feeding the screen with 64 celeurs at any one time, and FM stereo output.

spective viewpoint. It sounds simple enough, but try getting any other isbit computer to handle that information without easiling on speed, thrill the unchartered areas of the Ampaha hardware are more estimatively explored you won't. The Segu-Megaditive is straight out of the

fature. Expected to come in at nearly £200 when it has the UK, NT probably still sell by the sacical near Christmas—and Judgming by the Japanese reaction and the quality of the Space Namier 2 cattridge we saw; it'll be a

How much and when

Sega's UK distributor, Virgin Mastertronic says the Megadrive will arrive in the LIX not Segatember and set for arrord £200. If you can't wait that long and face, being the coolest didde on any block controls Japan, you can pick up the Sera Mesadrive for only £25 in Sera Mesadrive for only £25 in 1

Tolyo. The return alrian's about a grand though? The games carbridges sell for £25 in Japan – at the moment there's only Stace Hamiler 2 and Super Thunderbade available, but enhanced versions of Albridoner and Outhin are shortly to be released (in the fine for shortly to the released (in the fine for the fine for the sell of the fine for the shortly to the released (in the fine for the shortly to the released (in the fine for the shortly to the released (in the fine for the shortly to the released (in the fine for the shortly to the released (in the fine for the shortly to the released (in the fine for the shortly to the released (in the fine for the shortly to the sell and shortly shor

The competition lines up

Nintendo 8-bit System

- Standard Model £129.95
Console, two game controllers, 7/
sector, Super Mario Brothers Cartr
game.

- Deliuse Medel £189.95

Paints 52
Uspiny IV Only

• Audio
Scend channels 3
Stree No
Secan 8-bit System

Sega 8-bit System

* Master System £79.95
Console, two game controllers, TV connector, Hange of Smart Card game.

* Master System Plus
£39.95
Console, Light Phaser, two game con-

game.

- Super System ...£129.95
Console, 3D glasses, Light Phaser, two
game controllers, IV connector, Missile
Defence Cartridge game.

no sole games available, althou games are starting to show the starting the starting to show the starting to show the starting to show

Resolution 160
Palette 16
Display 74 C

* Audia
Sound channels 3
Staree No

NEC PC Engine
Not officially available in the UK, alts
some retailers are importing 808 m
for versions over here for about £1.
No details from NEC themselves as
* Software.

Reported to be a 15-bit console will be speed and audio-visuals than the Aniga. Will come with a three inch ble-sided disk drive, but will also lee the usual cartridge cotion. Attant ST Console Day to be assumed as offered in 1989, priced at £99. Will come without invokant or disk.

available on cartridgel.

Amilga Console

Ommodere is believed to be launching
a console based on the Amiga - no
érable are currently available.

Nintendo 16-bit console

Nintendo is reported to be working on a
16-bit console, but again there are no



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RIPOFF! The savage war against copy-cat software

unfortunate wages of talent and

What if a small software house had

If copyright and the quee

Activision had licensed the coin-og hit R-Type and tabbed it in for a pre-Christmas

What about the argument that it's

If companies are going to start

What is 'look and feel'?

The nub of the argument

If you're planning to buy R-Type ask yourself these two questions: 2) If you had bought Gold's Katakis in September would you be buying A Type over

The curious case of R-Type and Katakis

Cousens reckors that if Katakis had hit the streets at least 20,000 ounters would



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EAGER FOR AMIG

Tain rather disappointed in your choice of the Alla Dishingsgifted is all your be buy for this Chimina. I vooid lish to your out with even though the Commodor. Amps costs more, the capabilities make the small entra cost well worth it. For example, the Haigs has declared choice for sound and graphics and has ball in billitar chip. The ST may be more such if on MID applications but the over quality of small, whost the sea of MID, a commande to that of an Armstad or BEC. On the other hand, the Arings sound chip's output can be likewed to that of this relation southers con-

The graphics capability of the ST is to say the least sparse, whereas the is capable of much higher quality graphics (eg the use of Amiga graphics in programmes including Metwork 71. From the above evidence I conclude that though the cost of the Amiga is

nisgvings.
Ithus rest my case.
Andrew McMine. Celchester, Essex

You make some fair points -

Itechnical superiority over the ST is not being fully exploited by software hossis. The make to buying an Armays is that your purping an additional ELIO Cardy a "small early cost"? for fucilities which you may barely got the benefit of "Es the quality of available software which determines the value of a machin for meast propies.

The state of the superior the state of the state of the state of the state of the superior the state of the state of the state of the state of the superior the state of the state of the state of the superior the state of the state of the state of the superior the state of the state of the state of the superior the state of state s

NOT SO EAGER FOR AMIGA I congratulate you on having the

insis buy for Dristmas.

Tapper with your choice, even though I have an Arriga 1000. The ST Super Plack at £159, less discounts assibable, is an excellent buy. I am hoping to buy a 1006STRM with the business software in the flew her.

If there is a criticism of your very fair comparisons, if is that genuine burgains Arriga productively software am now becoming validable. And on the ST there is

speling checker plus Thesaurus – still at £50 for the Arriga). And LS software publisher those-Wagh has recently opened in London to sell cheap Arriga programs.

Michael Kieseston, Littledean, Bristell

Mother machine seems to have a le

the advantage of US nothware, the ST has the lead in European puckages. Let the debate continue... BORING LETTERS PAGES

Recommending the Atan ST is Amiga users, prompting the o

MAIL ORDER DISORDER

right I have to inform you of the right in the total property of the right in the r

By the way, I think your mag is 'wellard'. Micholas Crowther, East Cowes, Isle

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Howard Fisher, Locomotive Seftware

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ream in britain. Where or is about argaining to to with composing - just as foring a your letters are interesting or analyty or opinionated or entertaining or, failing that, short. The week's most impressive epistels wins a mystery prize – we try to make it appropriate for the person concerned. Write to:

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with what you say. Then you get a cross (and get cross).
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bin of computers has got to Proch. A computer is lacking in a special handware add on the computer is to run a few specified loves - mostly rubbish.

Don Griffith, Leeden W6

✓ four special mystery price is winging its way to you forthwelt. Congratulations its a Memotech! Actually, it self. And to be bonest, you haven't won it for mystery price in any case. If I wave you I'd now how there we.

ART-FELT PLEA Since computers have been many uses of them have an folied in the communic on their communic on their communic on the communic or the communication of the communication of

draks and tapis.

Also, groups have only just started have all their music published as score Why can't this be in another form or account.

Jacon Kelsali, Rotherham, Yorkshire

X Fundamentally, this idea appears

Blood if you age! main march is he.

of computers being interactive?

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THE PC SHOPPING NIGHTMARE

You can avoid it with, this exclusive buyers guide to Britain's top-value IBM-compatibles

there are few more difficult tasks than buying a PC-compatible. It's rather like one of those Mensa tests where you have to spot the logical relationship between six confusingly different pictures.

able to choose between 8088 and 8088 processors, 512K and 640K of RAM, between mone and colour displays. But the choices pile up, and manufacturers insist on offering ever-so-alight-hedifferent configurations.

How do you choose between 512K and colour, or 640K and mono? Which is better: twin floppy disk drives, or an extra two or three expansion slots? Does a free mouse make up for the absence of an RS232 interface?

When you start to take pricing into consideration, the fog of despair settles and you could be forgiven for simply buying the first machine you find in a High Street shop window. We decided to take a more consid-

ered approach. Cutting through the fog

To help an make a choice on a more rational basis, New Compasse Express overloops a way of surger, were commonly found seatures in PC hardways for destinability. By comparing the total designability (Millay with price, we were able to desturmine sentir) how attornitive seath pursuives would be. We all modelates qualified—egate a few shad to meet our maximum spec of \$125 RAM, single from pp date drive, one parties and one serial prefetter, there even make you how the MS-DGS contains.

bility).

A few more quickly fell by the weypide – would you buy a machine that had half the features of an



sunfred contenders and these seem slowly winrowed down to a shartlist of about 25 machines in one 30 different configurations.

These machines seem their overfied ratings in

These machines uses then a se following categories: ower Zopus torage Zopus torage Zopus torage Topus torage Topus topus

The stem of these ferro entrange from a Tetal Desir Addity Seen out of 100.

There are built-to Desson in these ratings: in base disk is sudd more destrained here. VCA prophise the Power rating combines processor with more d'Ault in au soldens as a reperfast processor with base of Ault in sold and the popular o silve processor with base of Ault in a soldens as a reperfast processor with wey lists PAM. Charliffy root the least share of potential and the processor with the processor of the

The Express Value Rating, or EVR, is calculated a

sized to an imaginary perfect machine (with a total Desirability sizing of 500) selling at an unbelies size price of £1,000 (impossible, but then perfection is supposed to be like that). Six POs came out remarkably seal with EVRringing from 7-4. Full details on all six are printed on the next two cones.

ing way from £1,000. (Incidentally, we exer a similar basis, that the Atari 10008' oliciz monitor also comes up with an £VR of

Take your pick

your answers to two questio How much can I afford?

If you've on a limited budget then the Olivetti
Commodore machines one your best bet. The It
is job has a definite
edge, but when you add
in the WAY it will cost
around \$100 more - not
much but it could be the
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ole to 640%

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PRICE		
figuration 6		

OWER (rated out of 20) es the ower and speed of the central pro- tor and the amount of memory evaluate mea- el in Riotytes 60.	8088 processor running at 4.77MHz 512K memory expandable to 640K on board

10

£315	
unning at 3	4.77/8MHz 80 512K expands on board

5	• 640K
10	● 1 x 3.5" 720K floppy

• 640K	10
● 1 x 3.5" 720K floppy	12
VGA-standard adaptor.	5

£749

STORAGE (out of 20) What how of disk drives are included. Two flag- pies are before than one and 3.5" to before than 5.25". Best of all is a large hard disk.
DISPLAY (out of 15) The graphics modes built in and the monitor out piled for the price quoted. Hercules is highway misson, OMA is a simple colour land low-res man.

EXPANDABILITY	(out o

 No emposion slots USABILITY (out of 30)

TOTAL DESIRABILITY

Capacity for external

● 1 x 5.25" 360K floppy

· CGA adaptor, moso

· Single slot for PC

23

· CGA display, supplied with · 2nd floppy drive, or 40Mb

First Choice integrated software

· Although technically limited the

package - word-processor,

database and spreadsheet

interface

1 x 3.5⁻ 720K floody

 Colour monitor optional • 1 x parallel printer interface 16 ● 1 x serial printer/modem

• 1 x parallel printer • 1 x serial printer/modern interface ● Mouse

 3 x standard expansion. · 2nd floppy disk or hard

 Expanded keyboard 63 When Alan Sugar announced the

SCORE (out of 100) **EXPRESS VERDICT**

 Rather Imited, even in comparison. expansion possibilities, and features.

Olivetti's low-price makes it unbeveable value for money. The 720K flooage of an older twin-disk PC, and the away. The expanded versions score a slightly lower VFM rating, but if you well-artyised to buy it immediately -

The 2086 may not have a superrequire, but it is a capable system

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The D-I-Y Option

evaluation of six top-value PCs

Elonex PC88C £775

● 640K

● 1 x 5.25* 360K floppy

● 1 x 5.25" 360K floopy

· Hercules-compatible, with

· 4 x standard expansion

• 1 x peralel printer interface 21

Gern v3 with 1st Word and Gern

· A business system offering very

20Mb hard disk and Hercules-stan-

dard graphics make it a good choice

good value for money. The fast

58

• 1 x serial printer/modern

interface ● Mouse

eral office use. With this machine you get a com

● 1 x 20Mb band disk

Advent PCXT10 line Amstrad PC2286





	-
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Fac.	and the
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13

72

1Mb expandable up to 4Mb

Write to: PC Comment, New

Where to buy

THE WINNER The Olivetti PC1 comes out It's ideally suited to an

of PC computing. than the make, is the need to make sure that the con

figuration you buy is the one best suited to your needs. Happy shopping! @

4.77/10MHz 8088 ■ ICMHz 8088 ● 640K

- 18
 - 1 x 30Mb hard disk ■ 2 x 3.5' floopy disks giving a total of 2 RRMb of · FGA advotor, mono
 - VGA-standard adaptor
 - R v & ill PC exmansion stats Colour EGA aption (£200)
 - 5 a monarsion slots ♦ VGA colour monitor (£150) 40Mb band disk (£350 extra)
 - 1 x parallel interface • 1 x serial interface · Mouse
 - Extended keyboard Windows 286

- 69
- A fully equipped business ment, with a reasonably rippy pro-
- cessor. 30Mb of disk capacity, and
- probably convert any doubters

cards. And the software bundle is

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● Extended keyboard

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od), PC . £99.95dk (Version 2 avail-Arnor . 611 Lincoln Road, Peterbor-

The Amiga Protest is version 4 in Amor's numbering scheme. If you've

- How well will Protext most your needs?

. If you're a complete revice on the Amiga, you could

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this time, it could actually be the of the Seculbio Software boxs - who

although there's not a lot you can do with + it's a good job England's get Lineker!

Spectrum DD is far superior to the OS4 version, giving an

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Rik Haynes

One screen surround, that of your cockpit replete with

This is the second of six projected releases for the Captain Stood's Didler Bouchon. As you might

· The attributes of another alies adversary you're up against



Tronc-Sider' is set within a four-sided areas where

meteorites and satellites as you race against your oppo-

Sound effects are hot too - with what

. Just about to blast the energy bolt before your opponent beats

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ters, involves no violence of any kind, and requires flight sim sensitivity in its acrial

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soundrack - who bother including this substandard

The only other version planned is the Amiga - perhaps

Wasted is no more than a simple, although at times it's probably worth a look it you haven't already got

Rik Haynes

Transputer is designed by Clement Jack the Ripper Chambers, and is yet another Breakout clone. seen with a new (but not necessarily improved)

Transputer follows the standard route of the genre – you

Suffice to say that Transpoter probably offers the worst

Audia is the only near-adequate aspect of the game

oplayability, chronic visuals and incredible boredom There's no point in bothering with this sub-standard

Dik Haynes

WANTED

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Integrated debugger	Ń	N	Ý	
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Multi-line macro calls	N	N	N	
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Local labels			N	
Executable, relocatable code		N	Y	
Unkable code	Y	Y		
			N	
Multi-SECTIONs	N	Y	N	
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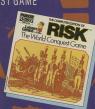
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